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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/944,930

DATE: 09/20/2001
 TIME: 13:58:04

Input Set : A:\PP16021.002 SEQLIST.TXT
 Output_Set: N:\CRF3\09202001\I944930.raw

ENTERED

4 <110> APPLICANT: Hageman, Robert V.
 5 Shirley, Bret A.
 6 Bajwa, Kamaljit K.
 8 <120> TITLE OF INVENTION: Stabilized FGF Formulations Containing
 9 Reducing Agents
 11 <130> FILE REFERENCE: PP16021.002
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/944,930
 C--> 13 <141> CURRENT FILING DATE: 2001-08-31
 13 <150> PRIOR APPLICATION NUMBER: 60/229,238
 14 <151> PRIOR FILING DATE: 2000-08-31
 16 <160> NUMBER OF SEQ ID NOS: 8
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 21 <211> LENGTH: 146
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
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 28 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
 29 20 25 30
 30 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp
 31 35 40 45
 32 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser
 33 50 55 60
 34 Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly
 35 65 70 75 80
 36 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu
 37 85 90 95
 38 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr
 39 100 105 110
 40 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser
 41 115 120 125
 42 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
 43 130 135 140
 44 Lys Ser
 45 145
 48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 146
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Bos taurus
 53 <400> SEQUENCE: 2
 54 Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His
 55 1 5 10 15
 56 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
 57 20 25 30
 58 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp

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59      35          40          45
60 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser
61      50          55          60
62 Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly
63 65      70          75          80
64 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu
65      85          90          95
66 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser
67      100         105         110
68 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro
69      115         120         125
70 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
71      130         135         140
72 Lys Ser
73 145
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 155
78 <212> TYPE: PRT
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 3
82 Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu Asp Gly
83 1      5          10          15
84 Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu
85      20         25         30
86 Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg
87      35         40         45
88 Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu
89      50         55         60
90 Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn
91 65      70         75         80
92 Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys
93      85         90         95
94 Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr
95      100        105        110
96 Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys
97      115        120        125
98 Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys
99 130      135        140
100 Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser
101 145      150        155
104 <210> SEQ ID NO: 4
105 <211> LENGTH: 155
106 <212> TYPE: PRT
107 <213> ORGANISM: Bos taurus
109 <400> SEQUENCE: 4
110 Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu Asp Gly
111 1      5          10          15
112 Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu
113      20         25         30

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114 Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg
115 35 40 45
116 Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu
117 50 55 60
118 Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn
119 65 70 75 80
120 Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys
121 85 90 95
122 Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr
123 100 105 110
124 Asn Thr Tyr Arg Ser Arg Lys Tyr Ser Ser Trp Tyr Val Ala Leu Lys
125 115 120 125
126 Arg Thr Gly Gln Tyr Lys Leu Gly Pro Lys Thr Gly Pro Gly Gln Lys
127 130 135 140
128 Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser
129 145 150 155
132 <210> SEQ ID NO: 5
133 <211> LENGTH: 441
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
137 <220> FEATURE:
138 <221> NAME/KEY: CDS
139 <222> LOCATION: (1)...(441)
141 <400> SEQUENCE: 5
142 ccc gcc ttg ccc gag gat ggc ggc agc ggc gcc ttc ccg ccc ggc cac 48
143 Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His
144 1 5 10 15
146 ttc aag gac ccc aag cgg ctg tac tgc aaa aac ggg ggc ttc ttc ctg 96
147 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
148 20 25 30
150 cgc atc cac ccc gac ggc cga gtt gac ggg gtc cgg gag aag agc gac 144
151 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp
152 35 40 45
154 cct cac atc aag cta caa ctt caa gca gaa gag aga gga gtt gtg tct 192
155 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Arg Gly Val Val Ser
156 50 55 60
158 atc aaa gga gtg tgt gct aac cgt tac ctg gct atg aag gaa gat gga 240
159 Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly
160 65 70 75 80
162 aga tta ctg gct tct aaa tgt gtt acg gat gag tgt ttc ttt ttt gaa 288
163 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu
164 85 90 95
166 cga ttg gaa tct aat aac tac aat act tac cgg tca agg aaa tac acc 336
167 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr
168 100 105 110
170 agt tgg tat gtg gca ctg aaa cga act ggg cag tat aaa ctt gga tcc 384
171 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser
172 115 120 125
174 aaa aca gga cct ggg cag aaa gct ata ctt ttt cca atg tct gct 432

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/944,930

DATE: 09/20/2001
TIME: 13:58:04

Input Set : A:\PP16021.002 SEQLIST.TXT
Output Set: N:\CRF3\09202001\I944930.raw

175 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
176 130 135 140 441
178 aag agc tga
179 Lys Ser *
180 145
183 <210> SEQ ID NO: 6
184 <211> LENGTH: 441
185 <212> TYPE: DNA
186 <213> ORGANISM: Bos taurus
188 <220> FEATURE:
189 <221> NAME/KEY: CDS
190 <222> LOCATION: (1)...(441)
192 <400> SEQUENCE: 6
193 cca gcc cta cca gaa gat ggg ggg tcc ggg gcc ttc cca cca ggg cac 48
194 Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His
195 1 5 10 15
197 ttc aaa gat cca aaa cga cta tat tgt aaa aac ggg ggg ttc ttc cta 96
198 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
199 20 25 30
201 cga atc cac cca gat ggg cga gta gat ggg gta cga gaa aaa tcc gat 144
202 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp
203 35 40 45
205 cca cac atc aaa cta caa cta caa gcc gaa gaa cga ggg gta gta tcc 192
206 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser
207 50 55 60
209 atc aaa ggg gta tgt gcc aac cga tat cta gcc atg aaa gaa gat ggg 240
210 Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly
211 65 70 75 80
213 cga cta cta gcc tcc aaa tgt gta acc gat gaa tgt ttc ttc ttc gaa 288
214 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu
215 85 90 95
217 cga cta gaa tcc aac aac tat aac acc tat cga tcc cga aaa tat tcc 336
218 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser
219 100 105 110
221 tcc tgg tat gta gcc cta aaa cga acc ggg caa tat aaa cta ggg cca 384
222 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro
223 115 120 125
225 aaa acc ggg cca ggg caa aaa gcc atc cta ttc cta cca atg tcc gcc 432
226 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
227 130 135 140
229 aaa tcc taa 441
230 Lys Ser *
231 145
234 <210> SEQ ID NO: 7
235 <211> LENGTH: 468
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <220> FEATURE:
240 <221> NAME/KEY: CDS

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PATENT APPLICATION: US/09/944,930

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TIME: 13:58:04

Input Set : A:\PP16021.002 SEQLIST.TXT
Output Set: N:\CRF3\09202001\I944930.raw

241 <222> LOCATION: (1)...(468)
 243 <400> SEQUENCE: 7
 244 atg gca gcc ggg agc atc acc acg ctg ccc gcc ttg ccc gag gat ggc 48
 245 Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu Asp Gly
 246 1 5 10 15
 248 ggc agc ggc gcc ttc ccg ccc ggc cac ttc aag gac ccc aag cgg ctg 96
 249 Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu
 250 20 25 30
 252 tac tgc aaa aac ggg ggc ttc ttc ctg cgc atc cac ccc gac ggc cga 144
 253 Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg
 254 35 40 45
 256 gtt gac ggg gtc cggtt aag agc gac cct cac atc aag cta caa ctt 192
 257 Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu
 258 50 55 60
 260 caa gca gaa gag aga gga gtt gtg tct atc aaa gga gtg tgt gct aac 240
 261 Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn
 262 65 70 75 80
 264 cgt tac ctg gct atg aag gaa gat gga aga tta ctg gct tct aaa tgt 288
 265 Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys
 266 85 90 95
 268 gtt acg gat gag tgt ttc ttt gaa cga ttg gaa tct aat aac tac 336
 269 Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr
 270 100 105 110
 272 aat act tac cgg tca agg aaa tac acc agt tgg tat gtg gca ctg aaa 384
 273 Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys
 274 115 120 125
 276 cga act ggg cag tat aaa ctt gga tcc aaa aca gga cct ggg cag aaa 432
 277 Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys
 278 130 135 140
 280 gct ata ctt ttt ctt cca atg tct gct aag agc tga 468
 281 Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser *
 282 145 150 155
 285 <210> SEQ ID NO: 8
 286 <211> LENGTH: 468
 287 <212> TYPE: DNA
 288 <213> ORGANISM: Bos taurus
 290 <220> FEATURE:
 291 <221> NAME/KEY: CDS
 292 <222> LOCATION: (1)...(468)
 294 <400> SEQUENCE: 8
 295 atg gca gcc ggg agc atc acc acg ctg cca gcc cta cca gaa gat ggg 48
 296 Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu Asp Gly
 297 1 5 10 15
 299 ggg tcc ggg gcc ttc cca cca ggg cac ttc aaa gat cca aaa cga cta 96
 300 Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu
 301 20 25 30
 303 tat tgt aaa aac ggg ggg ttc ttc cta cga atc cac cca gat ggg cga 144
 304 Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg
 305 35 40 45

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/944,930

DATE: 09/20/2001

TIME: 13:58:05

Input Set : A:\PP16021.002 SEQLIST.TXT

Output Set: N:\CRF3\09202001\I944930.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date